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1600

RAW SEQUENCE LISTING

DATE: 04/28/2003

PATENT APPLICATION: US/10/056,407A

TIME: 15:08:57

Input Set : N:\CrF4\04092003\J056402A.raw

Output Set: N:\CRF4\04282003\J056407A.raw

```

1 <110> APPLICANT: MEHENS, LYDIE
2      LUHRMANN, REINHARD GEORGE
3      UNION, ANN
4      RAYMACKERS, JOSEPH
5 <120> TITLE OF INVENTION: METHYLATED, SMD HOMOLOGOUS PEPTIDES, REACTIVE WITH THE
ANTIBODIES
6      FROM SERA OF LIVING BEINGS AFFECTED WITH SYSTEMIC LUPUS
7      ERYTHEMATOSUS
8 <130> FILE REFERENCE: INNS:011--1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/056,407A
C--> 10 <141> CURRENT FILING DATE: 2002-01-24
11 <150> PRIOR APPLICATION NUMBER: US 09/297,981
12 <151> PRIOR FILING DATE: 1999-05-10
13 <160> NUMBER OF SEQ ID NOS: 32
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 19
18 <212> TYPE: PRT
19 <213> ORGANISM: Artificial Sequence
20 <220> FEATURE:
21 <223> OTHER INFORMATION: Synthetic Peptide
22 <220> FEATURE:
23 <221> NAME/KEY: MISC_FEATURE
24 <222> LOCATION: (2)..(18)
25 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
26 <400> SEQUENCE: 1
W--> 27      Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa
28          1              5              10              15
29      Gly Xaa Gly
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 11
33 <212> TYPE: PRT
34 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Synthetic Peptide
37 <220> FEATURE:
38 <221> NAME/KEY: MISC_FEATURE
39 <222> LOCATION: (2)..(10)
40 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
41 <400> SEQUENCE: 2
W--> 42      Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly
43          1              5              10
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 17

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47 <212> TYPE: PRT
48 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Synthetic Peptide
51 <220> FEATURE:
52 <221> NAME/KEY: MISC_FEATURE
53 <222> LOCATION: (7)..(15)
54 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
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W--> 56      Lys Ala Gln Val Ala Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly
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58          Asn
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 38
62 <212> TYPE: PRT
63 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Synthetic Peptide
66 <220> FEATURE:
67 <221> NAME/KEY: MISC_FEATURE
68 <222> LOCATION: (17)..(33)
69 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
70 <400> SEQUENCE: 4
71      Asp Val Glu Pro Lys Val Lys Ser Lys Lys Arg Glu Ala Val Ala Gly
72          1              5              10              15
W--> 73      Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly
74          20              25              30
75      Xaa Gly Gly Pro Arg Arg
76          35
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 16
80 <212> TYPE: PRT
81 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Synthetic Peptide
84 <220> FEATURE:
85 <221> NAME/KEY: MISC_FEATURE
86 <222> LOCATION: (5)..(13)
87 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
88 <400> SEQUENCE: 5
W--> 89      Asp Asn His Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Gly Gly
90          1              5              10              15
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 15
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Synthetic Peptide
98 <220> FEATURE:

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99 <221> NAME/KEY: MISC_FEATURE
100 <222> LOCATION: (3)..(13)
101 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
102 <400> SEQUENCE: 6
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104          1              5              10              15
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109 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic Peptide
112 <220> FEATURE:
113 <221> NAME/KEY: MISC_FEATURE
114 <222> LOCATION: (4)..(10)
115 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
116 <400> SEQUENCE: 7
W--> 117      Glu Arg Ala Xaa Gly Xaa Gly Xaa Gly Xaa Gly Glu
118          1              5              10
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122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Synthetic Peptide
126 <220> FEATURE:
127 <221> NAME/KEY: MISC_FEATURE
128 <222> LOCATION: (6)..(44)
129 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
130 <400> SEQUENCE: 8
W--> 131      Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly
132          1              5              10              15
133      Tyr Asn Xaa Ser Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly
134          20              25              30
135      Xaa Gly Gly Xaa Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly
136          35              40              45
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 18
140 <212> TYPE: PRT
141 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Synthetic Peptide
144 <220> FEATURE:
145 <221> NAME/KEY: MISC_FEATURE
146 <222> LOCATION: (6)..(11)
147 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
148 <400> SEQUENCE: 9
W--> 149      Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly
150          1              5              10              15

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Input Set : N:\CrF4\04092003\J056402A.raw

Output Set: N:\CRF4\04282003\J056407A.raw

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151      Tyr Asn
153 <210> SEQ ID NO: 10
154 <211> LENGTH: 26
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Synthetic Peptide
159 <220> FEATURE:
160 <221> NAME/KEY: MISC_FEATURE
161 <222> LOCATION: (7)..(24)
162 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
163 <400> SEQUENCE: 10
W--> 164      Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly Xaa Gly Gly Xaa
165          1          5          10          15
166      Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly
167          20          25
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 17
171 <212> TYPE: PRT
172 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Synthetic Peptide
175 <220> FEATURE:
176 <221> NAME/KEY: MISC_FEATURE
177 <222> LOCATION: (4)..(15)
178 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
179 <400> SEQUENCE: 11
W--> 180      Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly
181          1          5          10          15
182      Gly
184 <210> SEQ ID NO: 12
185 <211> LENGTH: 29
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthetic Peptide
190 <220> FEATURE:
191 <221> NAME/KEY: MISC_FEATURE
192 <222> LOCATION: (4)..(21)
193 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
194 <400> SEQUENCE: 12
W--> 195      Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly
196          1          5          10          15
197      Gly Pro Met Gly Xaa Gly Gly Tyr Gly Gly Gly Gly Ser
198          20          25
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 38
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING

DATE: 04/28/2003

PATENT APPLICATION: US/10/056,407A

TIME: 15:08:57

Input Set : N:\Cr4\04092003\J056402A.raw

Output Set: N:\CRF4\04282003\J056407A.raw

204 <220> FEATURE:
 205 <223> OTHER INFORMATION: Synthetic Peptide
 206 <220> FEATURE:
 207 <221> NAME/KEY: MISC_FEATURE
 208 <222> LOCATION: (4)..(34)
 209 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
 210 <400> SEQUENCE: 13

W--> 211 Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly Tyr Xaa
 212 1 5 10 15
 213 Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly Xaa Gly Gly Gly
 214 20 25 30
 215 Asp Xaa Gly Gly Phe Gly
 216 35

218 <210> SEQ ID NO: 14
 219 <211> LENGTH: 14
 220 <212> TYPE: PRT
 221 <213> ORGANISM: Artificial Sequence
 222 <220> FEATURE:
 223 <223> OTHER INFORMATION: Synthetic Peptide
 224 <220> FEATURE:
 225 <221> NAME/KEY: MISC_FEATURE
 226 <222> LOCATION: (4)..(12)
 227 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
 228 <400> SEQUENCE: 14

W--> 229 Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly
 230 1 5 10

232 <210> SEQ ID NO: 15
 233 <211> LENGTH: 26
 234 <212> TYPE: PRT
 235 <213> ORGANISM: Artificial Sequence
 236 <220> FEATURE:
 237 <223> OTHER INFORMATION: Synthetic Peptide
 238 <220> FEATURE:
 239 <221> NAME/KEY: MISC_FEATURE
 240 <222> LOCATION: (4)..(22)
 241 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
 242 <400> SEQUENCE: 15

W--> 243 Gly Gly Tyr Xaa Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly
 244 1 5 10 15
 245 Xaa Gly Gly Gly Asp Xaa Gly Gly Phe Gly
 246 20 25

248 <210> SEQ ID NO: 16
 249 <211> LENGTH: 19
 250 <212> TYPE: PRT
 251 <213> ORGANISM: Artificial Sequence
 252 <220> FEATURE:
 253 <223> OTHER INFORMATION: Synthetic Peptide
 254 <400> SEQUENCE: 16
 255 Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/056,407ADATE: 04/28/2003
TIME: 15:08:58Input Set : N:\Crf4\04092003\J056402A.raw
Output Set: N:\CRF4\04282003\J056407A.raw**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,4,6,8,10,12,14,16,18
Seq#:2; Xaa Pos. 2,4,6,10
Seq#:3; Xaa Pos. 7,9,11,15
Seq#:4; Xaa Pos. 17,19,21,23,25,27,29,31,33
Seq#:5; Xaa Pos. 5,7,9,11,13
Seq#:6; Xaa Pos. 3,5,11,13
Seq#:7; Xaa Pos. 4,6,8,10
Seq#:8; Xaa Pos. 6,9,11,19,27,29,33,36,44
Seq#:9; Xaa Pos. 6,9,11
Seq#:10; Xaa Pos. 7,9,13,16,24
Seq#:11; Xaa Pos. 4,10,13,15
Seq#:12; Xaa Pos. 4,10,13,15,21
Seq#:13; Xaa Pos. 4,5,7,12,16,18,22,26,29,34
Seq#:14; Xaa Pos. 4,5,7,12
Seq#:15; Xaa Pos. 4,6,10,14,17,22
Seq#:32; Xaa Pos. 8,10,12,14,16,18,20,22,24

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

DATE: 04/28/2003

PATENT APPLICATION: US/10/056,407A

TIME: 15:08:58

Input Set : N:\Crf4\04092003\J056402A.raw

Output Set: N:\CRF4\04282003\J056407A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:27 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
M:341 Repeated in SeqNo=4
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32